

8080 portable box/bus/power
\$375

Electronic Control Technology

P.O. BOX 6
UNION, NEW JERSEY 07083

WCEF 77

The ECT-100 Card Cage is engineered for use in dedicated control applications, turnkey systems or other Microcomputer systems applications. The cage is of rugged construction and fits the industry standard 19" cabinetry occupying 7 RETMA increments (12.25 inches). It comes with the MB-20 Mother Board and can accommodate 20 printed circuit boards 10x5.3 on 3/4 inch centers which are removable from the front for easy accessibility. The bus structure is the standard 100 pin bus of the personal computers ("Altair" bus or S-100 bus) for which a wide variety of cards are available from more than 30 manufacturers.

The ECT-100-8080 consists of an ECT-100 Card Cage with the MB-20 Mother Board, a PS Power Supply, the 8080 CPU Card and one set of 100PC E&I connector and guides.

The ECT-100-Z80 consists of an ECT-100 Card Cage with the MB-20 Mother Board, a PS Power Supply, the Z80 CPU Card and one set of 100PC E&I connector and guides.

The MB-20 Mother Board has 20 slots on 3/4 inch centers. It's bus structure is set up for the standard 100 pin bus of the personal computers ("Altair" bus or S-100 bus). Bus terminators are supplied and one side is a ground plane for noise reduction.

The PS Power Supply can deliver 20 Amps at +8 Volts and 3 Amps each at +16 Volts and -16 Volts unregulated from 117 Volts 60 Hz input.

The 8080 CPU is a Microprocessor Card which uses the 8080A Microprocessor IC and includes clock, tri-state bus drivers and control signal timing. It also has a feature of a reset with a jump to a selectable starting address for use in systems with a ROM monitor but without a front panel. The signal definitions and pin numbers are that of the standard 100 pin bus of the personal computers ("Altair" bus or S-100 bus). Low profile IC sockets are provided for all IC's.

The Z80 CPU is a Microprocessor Card which is equivalent to the 8080 CPU Card except that it uses the Z80 Microprocessor IC and requires only +8 Volts.

The 8KM is an exceptionally low power 8K Static Memory Board for the S-100 bus. It is based on a 4K N-MOS static RAM with an access time of 200 nS. It requires no wait or refresh states in a 2 MHz system and consumes less power than other "low power" memory boards which have only half as much memory. Low profile IC sockets are provided for all IC's.

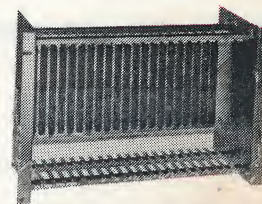
The 16K RAM is a 16K version of the 8KM for the S-100 bus which will operate at 4MHz system conditions permitting. Like that of the 8KM the power consumption is also exceptionally low. Low profile IC sockets are provided for all IC's.

The 2K ROM/2K RAM is a 4K Memory Board with 2K of RAM with an access time faster than 500 nS and space for 2K of ROM 1702A's.

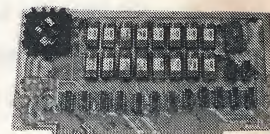
The PB-1 is an S-100 bus Prototyping Board which aids the creative user in prototyping special or new circuits for the Microcomputer. Space is available for up to 27 IC's with 14 pins and it can accept other size IC's or discrete components in any location. The PB-1 is specifically designed for point-to-point soldering but can also be used for wire wrap. The board is made from G-10 material and has gold over nickel plated fingers. Included also are a massive heat sink and a 5V regulator.

The EXT-100 is an S-100 bus Extender Card made of G-10 material and having gold over nickel plated fingers.

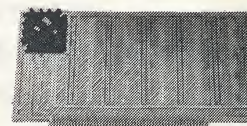
The ECT-8 is a pad of 50 sheets of a Microprocessor coding form with 5 columns of 32 lines for those who write programs in machine language.



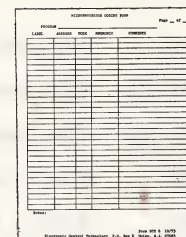
ECT-100 CARD CAGE



8KM 8K MEMORY BOARD



PB-1 PROTOTYPING BOARD



ECT-8 CODING FORM

Specifications subject to change without notice. 2/77

LIMITED WARRANTY

ELECTRONIC CONTROL TECHNOLOGY, hereinafter referred to as ECT, in an effort to assure its customers that it is providing them with quality products, components and workmanship, hereby warrants its products as follows: All products both in kit form and assembled units and all components sold by ECT are purchased through factory distribution and any part which fails because of defects in workmanship or material will be replaced at no charge for a period of three (3) months following the date of purchase. The defective part must be returned postpaid to ECT within the warranty period. Any fully assembled kit, which fails to perform satisfactorily, may be returned to ECT within the warranty period, and if in the judgement of ECT it has been assembled with care and has not been subjected to electrical or mechanical abuse, it will be restored to proper operating condition and returned, regardless of the cause of malfunction, with a minimal charge to cover shipping and handling. Any unit purchased as a kit and returned to ECT and which in the judgement of ECT is not covered by this warranty will be repaired and returned at a cost commensurate with the work required. In no case will this charge exceed twenty dollars (\$20.00) without prior notification and approval by the owner. Any product purchased as an assembled unit is guaranteed against defects in material and workmanship and is further guaranteed for a period of three (3) months to meet the specifications in effect at the time of manufacture. All warranted factory assembled units returned to ECT postpaid will be repaired and returned without charge. This warranty is made in lieu of all other warranties expressed or implied and is limited in any case to repair or replacement of the ECT product involved.

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(201) 686-8080

PRICE SCHEDULE effective April 15, 1977

PART #	DESCRIPTION	KIT PRICE	WIRED & TESTED	AVAILABILITY
ECT-100	Card Cage & Mother Board	\$100		NOW
ECT-100-8080	Microcomputer 8080	\$320	\$500	5/77
ECT-100-Z80	Microcomputer Z80	\$420	\$600	3RD QTR '77
100PC E&I	20 Connectors & Guides when purchased with an ECT-100-	\$100	\$200	NOW
MB-20	Mother Board 20 slots	\$ 60		NOW
PS	Power Supply.....	\$100	\$175	5/77
8080 CPU	8080 CPU Card	\$120	\$200	5/77
Z80 CPU	Z80 CPU Card	\$200	\$280	3RD QTR '77
8KM	8K Static Memory Board	\$295	\$350	NOW
16K RAM	16K Static Memory Board	\$555	\$635	3RD QTR '77
16K RAM-4	16K RAM Board with only 4K	\$169		3RD QTR '77
16K RAM-8	16K RAM Board with only 8K	\$295	\$350	3RD QTR '77
16K RAM-12	16K RAM Board with only 12K	\$425		3RD QTR '77
4K	4K Memory Expansion Kit 8 4200's & sockets for 16K RAM-	\$130		NOW
2K ROM/2K RAM	ROM/RAM Board less ROMs	\$120	\$200	3RD QTR '77
PB-1	Prototyping Board	\$28		NOW
EXT-100	Extender Card	\$24	\$34	NOW

ECT-8	Microprocessor Coding Form Pad	\$1.75	
100PC E&I	Edge Connector & Guides for ECT or IMSAI	\$5.50	10/\$54.00
100PC M&P	Edge Connector for Altair or PTCO	\$8.95	
DB25P	Plug & Hood, 25 pins for I/O	\$4.00	
DB25S	Socket, 25 pins for I/O	\$4.00	
DB25H	Hood for DB25S on a cable	\$1.50	

TI Low Profile Solder Tail DIP IC Sockets
Series C84--02 or C83--02

Pins	1-24	25-49	50-99
8	.17	.16	.15
14	.20	.19	.18
16	.22	.21	.20
18	.29	.28	.27
20	.32	.31	.30
22	.37	.36	.35
24	.38	.37	.36
28	.45	.44	.43
40	.63	.62	.61

P8212 8-bit I/O port	\$3.75	5/\$17.50	10/\$34.00
2N5449 NPN 30V 800mA	4/\$1.00	25/\$5.50	50/\$10.00
2N5448 PNP 30V 200mA	4/\$1.00	25/\$5.50	50/\$10.00
1N914	10/\$.60	100/\$5.00	
LM340T-5 / 7805	\$1.70	5/\$8.00	10/\$15.00
LM340T-12 / 7812	\$1.70	5/\$8.00	10/\$15.00
UK10-104 .1MF 10V Disc	5/\$1.00	50/\$8.00	100/\$14.00
UK25-103 .01MF 25V Disc	5/\$1.00	50/\$8.00	100/\$14.00
Augat pins carrier of 16	\$1.00	10/\$9.00	
Small Heat Sink U Channel	\$.60	5/\$2.75	10/\$5.00
Massive PC Heat Sink Sq.	\$2.00	5/\$9.00	

SHIPPING EXTRA

DELIVERY IS STOCK TO 4 WEEKS ARO (AFTER RECEIPT OF ORDER) EXCEPT AS NOTED.

PERSONAL CHECKS REQUIRE 3 WEEKS FOR CLEARANCE. NJ RESIDENTS ADD 5% SALES TAX.

FOREIGN SHIPPING CHARGES SUBJECT TO QUOTATION.

ALL PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

FOR EACH BOARD OR PARTS ORDER \$2.00
FOR EACH PS OR MICROCOMPUTER \$5.00

ORDERS TO PO BOX, APO, FPO
IN EXCESS OF \$200 ARE SHIPPED
BY REGISTERED MAIL
FOR EACH BOARD OR PARTS ORDER \$5.00
FOR EACH PS OR MICROCOMPUTER \$15.00